

IN THE CLAIMS

Claims 1-17 are pending in this application. Please amend claims 1, 4-5, 7-9, 11, and 13-17 as follows:

1. (Currently Amended) A network drawing system, comprising:
 - a first input unit designating a first query belonging to a first category;
 - a second input unit designating a second query belonging to a second category;
 - a data storage device storing ~~a degree of association between~~ terms belonging to a third category in a form of a table, the third category comprising the first category and the second category, the table including a degree of a relationship between each two of the terms belonging to the third category in the form of a plurality of sets of tables;
 - a calculation device which ~~associates~~ calculates a relationship between the input first query and second query through a plurality of terms[[,]] using the table stored in said data storage device; and
 - a display device displaying on a screen [[of]] a network of terms ~~having connected~~ linking the first query and the second query through a chain of [[the]] plurality of terms based on a result of calculation made by said calculation device.
2. (Original) The network drawing system according to Claim 1, further comprising a third input unit for designating a drawing condition; and
 - said network being displayed according to said drawing condition.
3. (Original) The network drawing system according to Claim 1, wherein said data storage device further stores attributes of said terms.
4. (Currently Amended) The network drawing system according to Claim 1, wherein at least one of said first query and said second query ~~is plural~~ includes a plurality of query terms.

5. (Currently Amended) The network drawing system according to Claim 1, wherein among routes ~~connecting~~ linking said first query and said second query, a route having the highest degree of a relationship ~~association~~ between the terms is displayed by a highlight line.
6. (Original) The network drawing system according to Claim 1, wherein
said first category is at least one of a disease name, a symptom, a protein name, a gene name, a compound name, a gene function and a protein's function; and
said second category is at least one of the compound name, the protein name and the gene name.
7. (Currently Amended) The network drawing system according to Claim 1, wherein
the ~~association~~ relationship between said terms is extracted according to co-occurrence between terms or phrase patterns.
8. (Currently Amended) The network drawing system according to Claim ~~[[1]]~~ 2, wherein the network ~~between~~ of the terms is re-displayed interactively by changing the setting of said third input unit.
9. (Currently Amended) The network drawing system according to Claim ~~[[1]]~~ 2, wherein
the ~~connection~~ linkage between the terms or editing for addition or deletion of a term itself can be conducted interactively by changing the setting of said third input unit.
10. (Original) The network drawing system according to Claim 1, further comprising a synonym dictionary for converting at least one query input through said first input unit or said second input unit into a standardized term.

11. (Currently Amended) The network drawing system according to Claim 1, wherein the ~~asseeiation~~ relationship between said terms is displayed on the screen at the same time with other external information about said terms.
12. (Original) The network drawing system according to Claim 1, wherein when said term has a hierarchy, said term is displayed hierarchically.
13. (Currently Amended) The network drawing system according to Claim 1, wherein said second category is a gene name, and said gene name is displayed along a horizontal axis of said screen, and a lod score of a result of linkage analysis to said calculation result is displayed for each gene of the horizontal axis or together with information on a chromosome position.
14. (Currently Amended) The network drawing system according to Claim 1, wherein the ~~asseeiation~~ relationship between said terms is displayed together with ~~[[the]]~~ a result of gene clustering based on gene attributes, wherein the first query or second query is gene with attributes.
15. (Currently Amended) The network drawing system according to Claim 1, wherein the first query or second query is genes with attributes, and the genes are clustered based on said attributes, and similarity of said genes based on the network of terms is inconsistent with a result of said clustering,
wherein ~~when a result of displaying the network does not match with a result of the gene clustering,~~ a route ~~connecting~~ linking the first query and the second query which ~~do not match~~ are inconsistent with ~~each other~~ a result of the gene clustering is displayed by a highlight line.

16. (Currently Amended) A network drawing method, comprising the steps of
inputting a first query belonging to a first category into a first input unit;
inputting a second query belonging to a second category into a second input
unit;

using a data storage device ~~having~~ storing a degree of association between
terms belonging to a third category in a form of a table, the third category comprising
~~including~~ said first category and said second category, the table including a degree of a
relationship between each two of the terms belonging to the third category stored in the form
~~of a plurality of sets of tables to associate said input first and second queries through a~~
plurality of terms;

calculating a relationship between the input first query and second query
through a chain of a plurality of terms by using the table stored in said data storage device;
and

displaying on a display device a network of terms ~~having connected~~ linking
said first query and said second query through said plurality of terms according to a result of
~~said associating~~ calculating the relationship.

17. (Currently Amended) The network drawing method according to Claim 16,
~~comprising wherein connecting to~~ said data storage device is accessed through an Internet.